



SEQUENCE LISTING

0110: Jeffers, Michael
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0120: Novel Fibroblast Growth Factor and Nucleic Acids
Encoding Same

0130: 15966-557 CIP1

0140: 03/603,843

0141: 1999-07-83

0150: 09/194,815

0151: 1999-01-31

0159: 09/145,849

0151: 1999-07-27

0160: 1.5

0170: PatentIn Ver. 2.1

0210: 1

0211: 633

0212: DNA

0213: Homo sapiens

0400: 1

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aggatctcgg cggagcggag cgcgcgcggc gggccggggg ctgcgcagct ggcgcacctg 180
caggctctac tggcgcgcgc gcagctctat tgcgcgcgcg gcttcacct gcagatcctg 240
ccgcacgcga gcttgcaggg caccgcgcag gaccacagcc tcttcgggtat cttggaattc 300
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gagcagtttg aagagaactg gtataacacc tcttcctc taatatataa acatggagac 480
actggcgcga ggtattttgt ggcacttaac aaagacggaa ctccaaagaga tggcgccagg 540
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ccagaattgt acaaggacct actgatgtac act                                     633
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<210: 2

<211: 211

<212: FRT

<213: Homo sapiens

<400: 2

Met Ala Pro Leu Ala Glu Val Gly Gly Phe Leu Gly Gly Leu Glu Gly
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Leu Gly Gln Gln Val Gly Ser His Phe Leu Leu Pro Pro Ala Gly Glu
20 25 30

Arg Pro Pro Leu Leu Gly Glu Arg Arg Ser Ala Ala Glu Arg Ser Ala
35 40 45

Arg Gly Gly Pro Gly Ala Ala Gln Leu Ala His Leu His Gly Ile Leu
50 55 60

Arg Arg Arg Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Gln Ile Leu
65 70 75 80

Pro Asp Gly Ser Val Gln Gly Thr Arg Gln Asp His Ser Leu Phe Gly
85 90 95

Ile Leu Glu Phe Ile Ser Val Ala Val Gly Leu Val Ser Ile Arg Gly
100 105 110

Val Asp Ser Gly Leu Tyr Leu Gly Met Asn Asp Lys Gly Glu Leu Tyr
115 120 125

Gly Ser Glu Lys Leu Thr Ser Glu Cys Ile Phe Arg Glu Gln Phe Glu
130 135 140

Glu Asn Trp Tyr Asn Thr Tyr Ser Ser Asn Ile Tyr Lys His Gly Asp
145 150 155 160

Thr Gly Arg Arg Tyr Phe Val Ala Leu Asn Lys Asp Gly Thr Pro Arg
165 170 175

Asp Gly Ala Arg Ser Lys Arg His Gln Lys Phe Thr His Phe Leu Pro
180 185 190

Arg Pro Val Asp Pro Glu Arg Val Pro Glu Leu Tyr Lys Asp Leu Leu
195 200 205

Met Tyr Thr

210

<210> 3
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<221> Description of Artificial Sequence:FGF-CX Forward
Primer

<210> 3
ctctccagat ctccaccatg gctcccttag ccgaagtc 38

<210> 4
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<221> Description of Artificial Sequence:FGF-CX Reverse
Primer

<210> 4
ctctccctcg agagtggtaca ttagtaggtc cttg 34

<210> 5
<211> 424
<212> DNA
<213> Homo sapiens

<410> 5
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tattatctt ccccaatggt actatccagg gaaccaggaa agaccacaga cgatttggca 120
ttcagggaatt tatcagtata gcagtgggac tggtcagcat tcgaggcgtg gacagtggac 180
tctacctcgg gatgaatgag aagggggagc tgtatggatc agaaaaasta aaccaagagt 240
gtttatccag agaacagttc gaagaaaact ggtataatac gtacttghca aacctatata 300
agcngtggg cactggaagg cgatactatg ttgcattaaa ttangattgg aaccogagag 360
angpraatag gactaaacgg caccagaaat tcacacattt ttacataga ccagtggacc 420
cggc 424

<210> 6
<211> 236
<212> DNA

<213> Homo sapiens

<400> 6

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atggcagacc cccggccgc cgcgcgcgct ccgctccgac gcgctcctgc gctgcggcag 180
cagcgcggc cgtcccccgc caggaggcaa caggaaatgc gaacccacct gctggcccaa 240
gcctccagg ccgcccagaa agcccccgc ttgggctaag ggagccat 258
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<210> 7

<211> 255

<212> DNA

<213> Homo sapiens

<400> 7

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ttgttagt gccacaaat acctgcgggc agtgtctcca tgtttatata tgttagatga 180
ataatgata taccagtctt ctccaaactg ctccctaaag atgcattcgg aagtaagttt 240
ctctgaaag agaga 255
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<210> 8

<211> 106

<212> DNA

<213> Homo sapiens

<400> 8

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taactctac cagtcaccat gccacactga tgaattocaa gatacc 106
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<210> 9

<211> 5

<212> PRT

<213> Homo sapiens

<400> 9

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Met Ala Pro Leu Gly Glu Val Gly Asn Tyr Phe Gly Val Gln Asp Ala
1 5 10 15
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Val Pro Phe Gly Asn Val Pro Val Leu Pro Val Asp Ser Pro Val Leu
20 25 30
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Leu Ser Asp His Leu Gly Gln Ser Glu Ala Gly Gly Leu Pro Arg Gly
35 40 45
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Pro Ala Val Thr Asp Leu Asp His Leu Lys Gly Ile Leu Arg Arg Arg
50 55 60

Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly
65 70 75 80

Thr Ile Gln Gly Thr Arg Lys Asp His Ser Arg Phe Gly Ile Leu Glu
85 90 95

Phe Ile Ser Ile Ala Val Gly Leu Val Ser Ile Arg Gly Val Asp Ser
100 105 110

Gly Leu Tyr Leu Gly Met Asn Glu Lys Gly Glu Leu Tyr Gly Ser Glu
115 120 125

Lys Leu Thr Gln Glu Cys Val Phe Arg Glu Gln Phe Glu Glu Asn Trp
130 135 140

Tyr Asn Thr Tyr Ser Ser Asn Leu Tyr Lys His Val Asp Thr Gly Arg
145 150 155 160

Arg Tyr Tyr Val Ala Leu Asn Lys Asp Gly Thr Pro Arg Glu Gly Thr
165 170 175

Arg Thr Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val
180 185 190

Asp Pro Asp Lys Val Pro Glu Leu Tyr Lys Asp Ile Leu
195 200 205

00100 10

00110 205

00120 PRT

00130 MUs musculus

00400 10

Met Ala Pro Leu Gly Glu Val Gly Ser Tyr Phe Gly Val Gln Asp Ala
1 5 10 15

Val Pro Phe Gly Asn Val Pro Val Leu Pro Val Asp Ser Pro Val Leu
20 25 30

Leu Asn Asp His Leu Gly Gln Ser Glu Ala Gly Gly Leu Pro Arg Gly
35 40 45

Pro Ala Val Thr Asp Leu Asp His Leu Lys Gly Ile Leu Arg Arg Arg
50 55 60

Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly
 65 70 75 80

Thr Ile Gln Gly Thr Arg Lys Asp His Ser Arg Phe Gly Ile Leu Glu
 85 90 95

Phe Ile Ser Ile Ala Val Gly Leu Val Ser Ile Arg Gly Val Asp Ser
 100 105 110

Gly Leu Tyr Leu Gly Met Asn Glu Lys Gly Glu Leu Tyr Gly Ser Glu
 115 120 125

Lys Leu Thr Gln Glu Cys Val Phe Arg Glu Gln Phe Glu Glu Asn Trp
 130 135 140

Tyr Asn Thr Tyr Ser Ser Asn Leu Tyr Lys His Val Asp Thr Gly Arg
 145 150 155 160

Arg Tyr Tyr Val Ala Leu Asn Lys Asp Gly Thr Pro Arg Glu Gly Thr
 165 170 175

Arg Thr Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val
 180 185 190

Asp Pro Asp Lys Val Pro Glu Leu Tyr Lys Asp Ile Leu
 195 200 205

01100 11

01110 205

01120 PRT

01130 Rattus norvegicus

04000 11

Met Ala Pro Leu Gly Glu Val Gly Ser Tyr Phe Gly Val Glu Asp Ala
 1 5 10 15

Val Pro Phe Gly Asn Val Pro Val Leu Pro Val Asp Ser Pro Val Leu
 20 25 30

Leu Ser Asp His Leu Gly Gln Ser Glu Ala Gly Gly Leu Pro Arg Gly
 35 40 45

Pro Ala Val Thr Asp Leu Asp His Leu Lys Gly Ile Leu Arg Arg Arg
 50 55 60

Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly

65	70	75	80
Thr Ile Gln Gly Thr Arg Lys Asp His Ser Arg Phe Gly Ile Leu Glu	85	90	95
Phe Ile Ser Ile Ala Val Gly Leu Val Ser Ile Arg Gly Val Asp Ser	100	105	110
Gly Leu Tyr Leu Gly Met Asn Glu Lys Gly Glu Leu Tyr Gly Ser Glu	115	120	125
Lys Leu Thr Gln Glu Cys Val Phe Arg Glu Gln Phe Glu Glu Asn Trp	130	135	140
Tyr Asn Thr Tyr Ser Ser Asn Leu Tyr Lys His Val Asp Thr Gly Arg	145	150	155
Arg Tyr Tyr Val Ala Leu Asn Lys Asp Gly Thr Pro Arg Glu Gly Thr	165	170	175
Arg Thr Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val	180	185	190
Asp Pro Asp Lys Val Pro Glu Leu Tyr Lys Asp Ile Leu	195	200	205

0110: 12
 0111: 208
 0112: PRT
 0113: Xenopus laevis

Met Ala Pro Leu Ala Asp Val Gly Thr Phe Leu Gly Gly Tyr Asp Ala	1	5	10	15
Leu Gly Gln Val Gly Ser His Phe Leu Leu Pro Pro Ala Lys Asp Ser	20	25	30	
Pro Leu Leu Phe Asn Asp Pro Leu Ala Gln Ser Glu Arg Leu Ser Arg	35	40	45	
Ser Ala Pro Ser Asp Leu Ser His Leu Gln Gly Ile Leu Arg Arg Arg	50	55	60	
Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Gln Ile Leu Pro Asp Gly	65	70	75	80

Asn Val Gln Gly Thr Arg Gln Asp His Ser Arg Phe Gly Ile Leu Glu
85 90 95

Phe Ile Ser Val Ala Ile Gly Leu Val Ser Ile Arg Gly Val Asp Thr
100 105 110

Gly Leu Tyr Leu Gly Met Asn Asp Lys Gly Glu Leu Phe Gly Ser Glu
115 120 125

Lys Leu Thr Ser Glu Cys Ile Phe Arg Glu Gln Phe Glu Glu Asn Trp
130 135 140

Tyr Asn Thr Tyr Ser Ser Asn Leu Tyr Lys His Gly Asp Ser Gly Arg
145 150 155 160

Arg Tyr Phe Val Ala Leu Asn Lys Asp Gly Thr Pro Arg Asp Gly Thr
165 170 175

Arg Ala Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val
180 185 190

Asp Pro Glu Lys Val Pro Glu Leu Tyr Lys Asp Leu Met Gly Tyr Ser
195 200 205

<210> 13
<211> 26
<212> PRT
<213> Homo sapiens

<210> 13
Gln Asp His Ser Leu Phe Gly Ile Leu Glu Phe Ile Ser Val Ala Val
1 5 10 15

Gly Leu Val Ser Ile Arg Gly Val Asp Ser
20 25

<210> 14
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: pG-c-V5-His

Forward Primer

<400> 14
ctcgtccctcg agggtaagcc tatccctaac 30

<210> 15
<211> 31
<212> DNA
<213> Artificial Sequence

<214>
<215> Description of Artificial Sequence:pSec-V5-His
Reverse Primer

<400> 15
ctcgtcgagg ccctgattag cgggtttaaa c 31

<210> 16
<211> 11
<212> DNA
<213> Artificial Sequence

<214>
<215> Description of Artificial Sequence:Oligonucleotide
linker

<400> 16
ctcgtcagg ctac 14

<210> 17
<211> 14
<212> DNA
<213> Artificial Sequence

<214>
<215> Description of Artificial Sequence:Oligonucleotide
linker

<400> 17
ctgtatagg tgac 14

<210> 1:
<211> 20
<212> DNA

<213> Artificial Sequence

<270>

<233> Description of Artificial Sequence:Ag31b Forward
Primer

<400> 18

ggacacacagc ctcttcggta

20

<100> 19

<111> 19

<112> DNA

<113> Artificial Sequence

<270>

<233> Description of Artificial Sequence:Ag31b Reverse
Primer

<400> 19

tttctacacc tctaataatg accag

25

<100> 20

<111> 20

<112> DNA

<113> Artificial Sequence

<270>

<233> Description of Artificial Sequence:Ag31b Probe
Primer

<400> 20

ttacttcca cactgatgaa ttccaa

26

<100> 21

<111> 21

<112> DNA

<113> Artificial Sequence

<270>

<233> Description of Artificial Sequence:Ag31 Forward
Primer

<400> 21

aggcagaagc gggagataga t

21

02100-22

02110-24

02120-DNA

02130-Artificial Sequence

02200-

02230-Description of Artificial Sequence:Ag81 Reverse
Primer

04000-12

agcagccta cctcatcacc aatg

24

02100-23

02110-25

02120-DNA

02130-Artificial Sequence

02200-

02230-Description of Artificial Sequence:Ag81 Probe
Primer

04000-13

ccatcttatat ccaccacag ttgcagaa

28

01100-4

01110-207

01120-PRT

01130-Homo sapiens

04000-24

Met Ala Glu Val Gly Gly Val Phe Ala Ser Leu Asp Trp Asp Leu His

1

5

10

15

Gly Phe Ser Ser Ser Leu Gly Asn Val Pro Leu Ala Asp Ser Pro Gly

20

25

30

Phe Leu Asn Glu Arg Leu Gly Gln Ile Glu Gly Lys Leu Gln Arg Gly

35

40

45

Ser Pro Thr Asp Phe Ala His Leu Lys Gly Ile Leu Arg Arg Arg Gln

50

55

60

Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly Thr

65

70

75

80

Val His Gly Thr Arg His Asp His Ser Arg Phe Gly Ile Leu Glu Phe
85 90 95

Ile Ser Leu Ala Val Gly Leu Ile Ser Ile Arg Gly Val Asp Ser Gly
100 105 110

Leu Tyr Leu Gly Met Asn Glu Arg Gly Glu Leu Tyr Gly Ser Lys Lys
115 120 125

Leu Thr Arg Glu Cys Val Phe Arg Glu Gln Phe Glu Glu Asn Trp Tyr
130 135 140

Asn Thr Tyr Ala Ser Thr Leu Tyr Lys His Ser Asp Ser Glu Arg Gln
145 150 155 160

Tyr Tyr Val Ala Leu Asn Lys Asp Gly Ser Pro Arg Glu Gly Tyr Arg
165 170 175

Thr Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val Asp
180 185 190

Pro Ser Lys Leu Pro Ser Met Ser Arg Asp Leu Phe His Tyr Arg
195 200 205

0210: 25

0211: 614

0212: DNA

0213: Homo sapiens

0400: 25

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ggtccctta gccgaagtcg ggggtcttct ggggggcttg gagggcttgg gccagcaggt 240
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gagcggggg gagcggagcg cggcggcg gggggggct gccagcttg ccacactgca 360
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cagtgtggca gtgggacttg tcagtattag aggtgtggac agtggtctct atcttggaa 540
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gcagtttgaa gagaactggt ataacacctt tccatctaac atatatatac atggagacac 660
tgcccgccag tatttttctg cacttaacaa agacggaaat ccaagagatg gccccaggtc 720
caagaggnat cagaaattta cabattctt acctagacca gtgcatccag aaagagttcc 780
agaattgtac aaggacctac tgatgtacac ttga 840